

Docket No.: 08226/1203352-US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Letters Patent of:  
Greg I. Chiou et al.

Patent No.: 7,058,699

Issued: June 6, 2006

For: SYSTEM AND METHODS FOR  
IMPLEMENTING CODE TRANSLATIONS  
THAT ENABLE PERSISTENT CLIENT-  
SERVER COMMUNICATION VIA A PROXY

**REQUEST FOR CERTIFICATE OF CORRECTION  
PURSUANT TO 37 CFR 1.323 AND PATENT OFFICE MISTAKE (37 CFR 1.322)**

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted several errors which should be corrected.

The following errors were not in the application as filed by applicant:

In the Specification:

Page 2, Col. 2 (Other Publications), Below "Programming; copyrighted Oct. 28, 1996."  
insert - - Hideki, PGPub-Document No.: 20010016878 -Aug. 23, 2001, Communicating  
system & method for controlling throughput. - -.

Column 1, Line 1, Delete "SYSTEM" and insert - - SYSTEMS - -.

Column 1, Line 11, Delete "60/212,060," and insert - - 60/212,060 (Atty. Docket No. 017887-005300), - -.

Column 4, Line 65, Delete "09/372,350," and insert - - 09/372,350 (Atty. Docket No. 017887-002500), - -.

Column 11, Line 2, In Claim 35, after "segment" insert - - , - -.

The errors were found in the application as filed by applicant. The errors now sought to be corrected are inadvertent typographical errors. The correction of which does not involve new matter or require reexamination.

Enclosed please find marked up copies of the List of References cited by applicant and considered by examiner, Pages 1, 2, 6 & 9 of the specification.

The following errors were found in the application as filed by applicant. The errors now sought to be corrected are inadvertant typographical errors, the correction of which does not involve new matter or require examination.

Page 2, Col. 2 (Other Publications), Line 17, "datedMar." and insert - - dated Mar. - -.  
(Consider space)

Column 5, Line 56, "client side," and insert - - client-side, - -.

Column 6, Line 19 (Approx.) Delete "i.e." and insert - - i.e., - -.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 1 of 2

PATENT NO. : 7,058,699  
APPLICATION NO. : 09/650,273  
ISSUE DATE : June 6, 2006  
INVENTOR(S) : Greg I. Chiou et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**In the Specification:**

Page 2, Col. 2 (Other Publications), Below "Programming; copyrighted Oct. 28, 1996." insert - - Hideki, PGPub-Document No.: 20010016878 -Aug. 23, 2001, Communicating system & method for controlling throughput. - -.

Page 2, Col. 2 (Other Publications), Line 17, "datedMar." and insert - - dated Mar. - -.  
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Column 5, Line 56, "client side," and insert - - client-side, - -.

Column 6, Line 19 (Approx.) Delete "i.e." and insert - - i.e., - -.

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Column 11, Line 2, In Claim 35, after "segment" insert - - , - -.

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The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100. Payment of \$100.00 is enclosed herewith.

Dated: September 14, 2006

Respectfully submitted,

By   
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PTO/SB/08B (08-03)

Substitute for form 1448B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/650,273
		Filing Date	August 29, 2000
		First Named Inventor	Chiou, Greg I.
		Art Unit	2453 2154
		Examiner Name	To Be Assigned
		Attorney Docket Number	017887-005320US
Sheet	2	of	2

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
U.	5.	DERWENT Accession No. 2001-354550; Hoang et al., 1998US-0372350 (August 11, 1998), dated May 15, 2002.	.
	6.	From <a href="http://www.davidreilly.com/java/">http://www.davidreilly.com/java/</a> , these pages contain FAQ by Java developer, containing book reviews, source code, tips & tricks.	.
	7.	From <a href="http://www.javaskyline.com/learnervlets.html">http://www.javaskyline.com/learnervlets.html</a> , containing organized set of resources for learning Java servlets on the Web, copyrighted Oct. 7, 1999.	.
	8.	From <a href="http://www.esperanto.org.nz/jsp">http://www.esperanto.org.nz/jsp</a> , containing frequently ask questions with answer on JSP by Richard Vowles, copyrighted Jan. 25, 1999.	.
	9.	From <a href="http://WebDevelopersJournal.com/articles/intro_to_servlets.html">http://WebDevelopersJournal.com/articles/intro_to_servlets.html</a> , An Introduction to Java servlets, copyrighted Jan. 17, 1998.	.
	10.	From <a href="http://www.javaskyline.com/dev.html">http://www.javaskyline.com/dev.html</a> , Java Server Front-end Development; copyrighted Oct. 7, 1999.	.
	11.	From <a href="http://www.apl.jhu.edu/~hall/CWP.html">http://www.apl.jhu.edu/~hall/CWP.html</a> , Core Web Programming; copyrighted Oct. 28, 1998.	.
	12.	Hideki, PGPub-Document No.: 20010016878-Aug. 23, 2001, Communicating system & method for controlling throughput	.
	13.	REILLY, David, Java Network Programming FAQ at < <a href="http://www.davidreilly.com/java/java_network_programming/">http://www.davidreilly.com/java/java_network_programming/</a> > (17 pages); Last Modified April 27, 2000.	.
	14.	Learning Servlets: Web programs with many purposes at < <a href="http://www.javaskyline.com/learnervlets.html">http://www.javaskyline.com/learnervlets.html</a> > (8 pages); Updated November 18, 2001	.
	15.	BERGSTEN, Hans, "An Introduction to Java Servlets" at < <a href="http://www.webdevelopersjournal.com/articles/intro_to_servlets.html">http://www.webdevelopersjournal.com/articles/intro_to_servlets.html</a> > (11 pages) dated March 10, 1999.	.
✓	16.	HALL, Marty, "CORE Web Programming- In-depth Java 1.1, plus HTML, CGI, and JavaScript 1.2" at < <a href="http://www.apl.jhu.edu/~hall/CWP.html">http://www.apl.jhu.edu/~hall/CWP.html</a> > (2 pages); undated.	.

Examiner Signature	U. Uu	Date Considered	10-24-03
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

## Mobile Software Morphing Agent

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### 10 CROSS-REFERENCES TO RELATED APPLICATIONS

This application is related to U.S. Provisional Patent Application Serial No. 60/212,060 (Atty. Docket No. 017887-005300), filed June 16, 2000, entitled "Mobile Software Morphing Agent," the disclosure of which is hereby incorporated by reference in its entirety.

### BACKGROUND OF THE INVENTION

The present invention relates generally to modifying and translating information received from a remote source, and more particularly to modifying and translating executable code and data received from a web site.

15 *Ans A1*

20 The World Wide Web (WWW), or "the Web", is now the premier outlet to publish information of all types and forms. Documents published on the web, commonly called Web pages, are typically published using a markup language such as HTML (or Hyper Text Markup Language), which sets standards for the formatting of documents. Additionally, These standards make it possible for people to read and understand documents no matter which program they use for that purpose. Often included in an HTML formatted web page are software code segments attached as part of the page. Examples of such software include JavaScript, Java and ActiveX commands. If a user's browser is enabled to process the software code, the code will typically be processed to provide additional windows, e.g., pop-up windows, forms and other content for presentation to the user.

25 Typically, a user accesses pages on the Web through a web portal. One common portal is Yahoo located at URL: <http://www.yahoo.com/>. When a user selects a reference such as a URL presented on a page provided by the portal, the users browser

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processing other types of code such as Java code and ActiveX code, and any markup language, including any instance of SGML, such as XML, WML, HTML, DHTML and HDML.

According to one embodiment of the invention, a user preferably accesses  
5 servers 50<sub>i</sub> to 50<sub>N</sub> through proxy server 20. In the context of electronic commerce, for example, a user may access a local commerce site that provides access (via URL or other selectable links or references) to remote commerce sites, such as individual commerce web sites. One such system is described in U.S. Patent Application Serial Number  
10 09/372,350 (Atty. Docket No. 017887-002500), entitled "Electronic Commerce System for Referencing Remote Commerce Sites at a Local Commerce Site," filed August 11, 1999, the contents of which are hereby incorporated by reference in their entirety for all purposes. As described therein, a Remote Merchant Integration Server (RMIS) provides an interface to multiple merchant web sites. A user that accesses a remote commerce site through the RMI proxy is presented with a slightly modified version of the commerce site  
15 by the RMI server. Any requests from the user to a remote commerce site is managed by the RMI server and any responses by the remote commerce site are also managed by the RMI server transparently to both the user and the remote commerce site. One advantage of such a system includes the ability to provide, in the commerce context, a single shopping basket to a user who desires to shop at multiple remote commerce sites.  
20 Another advantage is the ability to track transactional information associated with users' purchases at the various merchant sites. An example of such a system can be located on the Internet at the Yahoo! Shopping site (URL: <http://shopping.yahoo.com/>). In this example, it is desirable to modify JavaScript code and HTML code and data received from the remote commerce sites using the techniques of the present invention to facilitate  
25 integration of the RMI system and to maintain user connection to the RMI system during transactions with the remote commerce sites.

According to an embodiment of the present invention, a set of different software morphing agents are provided for handling different kinds of software technologies. For example, one morphing agent (MA) is provided for handling  
30 JavaScript and another MA is provided for handling HTML. The MA for each type of the original third-party software technology is delivered to the appropriate device(s), e.g., proxy server 20 and/or a client device 30.

Figure 2 illustrates various exemplary configurations of a runtime environment of a morphing agent (MA) according to embodiments of the present



**Application No. 09/650,273**  
**Amendment dated January 3, 2006**  
**After Final Office Action of November 2, 2005**

**Docket No.: 08226/1203352-US1**

translating a first function call to a second function call compatible with the runtime library;

translating a function call to variable compatible with the runtime library; and  
translating a first variable to a second variable compatible with the runtime  
library; and  
translating a variable to a function call compatible with the runtime library.

35. (Currently Amended) A computer implemented method, comprising:  
receiving a code segment over a network connection, the code segment, including a  
first reference to information stored at a remote site, wherein usage of the first reference would  
cause a message to be sent to the remote site; and

modifying the code segment to be compatible with a runtime library, including translating the first reference to a second reference that is directed to a proxy server, wherein the compatibility for the modified code segment with the runtime library is arranged in accordance with tokenized relationships for the modified code segment, and wherein usage of the second reference in a client device causes a message that identifies the information stored at the remote site to be sent to the proxy server instead of the remote site, and wherein the proxy sends a request for the identified information to the remote site for the client device.

36. (Previously Amended) The method of claim 35, wherein receiving and modifying are performed in a client device communicably coupled with the proxy server, and wherein the code segment is received from the proxy server.

37. (Previously Amended) The method of claim 35, wherein the code segment is received from the remote site and wherein modifying is performed partially in a client device communicably coupled with the proxy server and partially in the proxy server.

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